BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

TOTAL ABSTRACT

3RD & PART BILL

Name of Work: Package No.02 (Package consists of 14 works).

Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura.2.Improvements to roads and drains Amruthanagara A sector and D Munishamappa Layout in ward no 07.Byataryanapura 3.Improvements to roads and drains of Sanjeevini Nagar Main road to Military Compound next to Sterling apartment to Kodigehalli main road in ward no 07 . 4.Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward.5.Improvements to roads and drains from JNC Circle to Jakkur Double Road in Ward No.7,Byatarayanapura.6.Improvements to roads and drains of Kallappa Layout(Left Hand side and Right Hand Side of Main Road) in Ward No.7,Byatarayanapura.7.Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu.8.Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu.9.Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura.10. Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura.11. Improvements to roads and drains OF Mandi MARIYAPPA Road via Mariyannapalya to Dasarahalli Main Road in Ward No.7,Byatarayanapura.12. Improvements to roads and drains from Renaissance Aero Apts, Santosh Vihar Phase-1 and Phase-2 of Jakkur Layout and Surrounding areas in Ward No.7,Byatarayanapura.13. Construction of 2 RO Plant in ward No. 07, Byatarayanapura.14. Providing and Fixing Electrical Fittings in Wrd No. 07.

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

TOTAL ABSTRACT

Name Of work : -Package No.02 (Package consists of 14 works)

Job Code :- 007-18-000109, 007-18-000110, 007-18-000111, 007-18-000112,007-18-000113,007-18-000114, 007-18-000115, 007-18-000116, 007-18-000117, 007-18-000118, 007-18-000119,007-18-000120,007-18-000121, 007-18-000122, 28873

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :- 3rd & Part Bill

Sl. No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
1	**KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		550.71			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		424.02			
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		130.05			
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		29.88			
	Present Qty		1134.66			
	Previous Bill Qty		3747.16			
	Total		**4881.82**			
	BOQ qty		**10454.76**			
	Qty for payment	**Cum**	**1134.66**	**217.12**	**246357.00**	
5	**Removing and Resetting of Footpath Slab (P.No.265, I.No.37.56 of PW, P&IWTD SR 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		1732.80			
	Present Qty		1732.80			
	Previous Bill Qty		1635.72			
	Total		**3368.52**			
	BOQ qty		**3570.00**			
	Qty for payment	**Sqm**	**1732.80**	**141.78**	**245676.00**	
6	**Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)**					
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		906.66			
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		96.30			
	Present Qty		1002.96			
	Previous Bill Qty		3518.71			

Consultants

TEJUS CONSULTANTS

Abdulla. N.D

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
	Total		**4521.67**			
	BOQ qty		**10405.60**			
	Qty for payment	Sqm	**1002.96**	**86.20**	**86455.00**	
7	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)**					
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		346.50			
	Present Qty		346.50			
	Previous Bill Qty		3692.34			
	Total		**4038.84**			
	BOQ qty		**9726.92**			
	Qty for payment	Sqm	**346.50**	**712.28**	**246805.00**	
10	**KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		18.90			
	Present Qty		18.90			
	Previous Bill Qty		48.67			
	Total		**67.57**			
	BOQ qty		**176.92**			
	Qty for payment	Cum	**18.90**	**5723.17**	**108168.00**	
11	**KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		24.00			
	Present Qty		24.00			
	Previous Bill Qty		0.00			
	Total		**24.00**			
	BOQ qty		**24.00**			
	Qty for payment	Sqm	**24.00**	**262.00**	**6288.00**	

Consultants

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
12	**KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		172.80			
	Present Qty		172.80			
	Previous Bill Qty		0.00			
	Total		**172.80**			
	BOQ qty		**172.80**			
	Qty for payment	Sqm	**172.80**	**332.32**	**57425.00**	
13	**Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		38.40			
	Present Qty		38.40			
	Previous Bill Qty		0.00			
	Total		**38.40**			
	BOQ qty		**38.40**			
	Qty for payment	Cum	**38.40**	**6667.96**	**256050.00**	
14	**KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		1.90			
	Present Qty		1.90			
	Previous Bill Qty		0.00			
	Total		**1.90**			
	BOQ qty		**3.08**			
	Qty for payment	MT	**1.90**	**68740.46**	**130297.00**	

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
20	**Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward		99.90			
	Present Qty		99.90			
	Previous Bill Qty		395.13			
	Total		**495.03**			
	BOQ qty		**2499.60**			
	Qty for payment	Sqm	**99.90**	**1859.66**	**185780.00**	
22	**KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		554.43			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		200.91			
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		691.49			
	Present Qty		1446.83			
	Previous Bill Qty		2857.80			
	Total		**4304.63**			
	BOQ qty		**6408.20**			
	Qty for payment	Cum	**1446.83**	**176.29**	**255062.00**	
25	**KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		554.43			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		200.91			

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		691.49			
	Present Qty		1446.83			
	Previous Bill Qty		2554.80			
	Total		**4001.63**			
	BOQ qty		**5302.07**			
	Qty for payment	Cum	**1446.83**	**1891.85**	**2737186.00**	
26	**KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		2410.57			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		873.53			
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		3006.47			
	Present Qty		6290.57			
	Previous Bill Qty		10976.09			
	Total		**17266.65**			
	BOQ qty		**22350.08**			
	Qty for payment	Sqm	**6290.57**	**29.49**	**185509.00**	
27	**KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		10149.75			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		2690.32			
	Present Qty		12840.07			
	Previous Bill Qty		50724.61			
	Total		**63564.68**			
	BOQ qty		**93451.82**			
	Qty for payment	Sqm	**12840.07**	**3.40**	**43656.00**	
28	**KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)**					

Consultants

TEJUS CONSULTANTS

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		17587.27			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		3850.42			
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		3006.47			
	Present Qty		24444.15			
	Previous Bill Qty		61883.69			
	Total		**86327.84**			
	BOQ qty		**123762.50**			
	Qty for payment	Sqm	**24444.15**	**13.61**	**332685.00**	
29	**KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.162 I.No. 21.17.6 of PW,P&IWTD S.R 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		150.36			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		14.33			
	Present Qty		164.69			
	Previous Bill Qty		75.75			
	Total		**240.44**			
	BOQ qty		**562.40**			
	Qty for payment	Cum	**164.69**	**7618.42**	**1254640.00**	
30	**KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		583.21			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		142.55			

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		120.26			
	Present Qty		846.02			
	Previous Bill Qty		2475.34			
	Total		**3321.36**			
	BOQ qty		**4632.08**			
	Qty for payment	Cum	**846.02**	**8686.84**	**7349221.00**	
33	**Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)**					
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		249.00			
	Present Qty		249.00			
	Previous Bill Qty		337.00			
	Total		**586.00**			
	BOQ qty		**1666.00**			
	Qty for payment	No.	**249.00**	**355.00**	**88395.00**	
35	**KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.182, I.No. 24.1 of PW,P&IWTD SR 2016-17)**	Sqm				
i	Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura		323.00			
	Present Qty		323.00			
	Previous Bill Qty		0.00			
	Total		**323.00**			
	BOQ qty		**1302.00**			
	Qty for payment	Cum	**323.00**	**68.05**	**21980.00**	
36	**KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)**					
a	Improvements to Roads in Sahakar nagara from Big market to Ayyappa Swamy Temple Via Temple Kanti Sweets and Ganesha Temple Road in ward No 07,Byatarayanapura		487.07			
d	Improvements to roads and drains from 18th Cross to JNC Circle(Left Hand Side and Right Hand Side Roads from Renuka Yellamma Temple Road to JNC Circle) in Ward No.7,Byatarayanapura		141.34			

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
j	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		128.02			
	Present Qty		756.43			
	Previous Bill Qty		0.00			
	Total		**756.43**			
	BOQ qty		**3470.30**			
	Qty for payment	Sqm	**756.43**	**580.71**	**439264.00**	
56	**Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P:48, I. 9.4) PRED.SR 2012-13**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		**2.00**			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	Each BW	**2.00**	**2013.74**	**4027.00**	
57	**Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13 - 0 to 50m**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		100.00			
	Present Qty		100.00			
	Previous Bill Qty		0.00			
	Total		**100.00**			
	BOQ qty		**100.00**			
	Qty for payment	Rmtr	**100.00**	**327.42**	**32742.00**	

Consultants

TEJUS CONSULTANTS

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
58	**Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13 - 50 to 100m**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		100.00			
	Present Qty		100.00			
	Previous Bill Qty		0.00			
	Total		**100.00**			
	BOQ qty		**100.00**			
	Qty for payment	Rmtr	**100.00**	**428.00**	**42800.00**	
59	**Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13 - 100 to 150m**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		100.00			
	Present Qty		100.00			
	Previous Bill Qty		0.00			
	Total		**100.00**			
	BOQ qty		**100.00**			
	Qty for payment	Rmtr	**100.00**	**476.15**	**47615.00**	
60	**Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13 - 150 to 200m**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		50.00			
	Present Qty		50.00			
	Previous Bill Qty		0.00			
	Total		**50.00**			
	BOQ qty		**100.00**			
	Qty for payment	Rmtr	**50.00**	**502.90**	**25145.00**	

Consultants

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
61	**Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13 - 200 to 250m**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		36.00			
	Present Qty		36.00			
	Previous Bill Qty		0.00			
	Total		**36.00**			
	BOQ qty		**100.00**			
	Qty for payment	Rmtr	**36.00**	**582.08**	**20955.00**	
62	**Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty P. iii, I No. 84 PRED SR 2012-13**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		50.50			
	Present Qty		50.50			
	Previous Bill Qty		0.00			
	Total		**50.50**			
	BOQ qty		**100.00**			
	Qty for payment	Rmtr	**50.50**	**1417.75**	**71596.00**	
63	**Providing 250mm dia PVC Pipe 6kg/cm SE PRED Approved Rate**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		36.00			
	Present Qty		36.00			
	Previous Bill Qty		0.00			
	Total		**36.00**			
	BOQ qty		**36.00**			
	Qty for payment	Rmtr	**36.00**	**807.28**	**29062.00**	
64	**Providing and fixing 160mm Borewell Cap P. iii, I No. 85**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	Rmtr	**2.00**	**107.00**	**214.00**	

Consultants

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
65	**Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps PWD SR 2016-17 P. XXXXII Item No. 24 including of all taxes-12.5 HP 25 Stage**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**64628.00**	**129256.00**	
66	**Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		500.00			
	Present Qty		500.00			
	Previous Bill Qty		0.00			
	Total		**500.00**			
	BOQ qty		**500.00**			
	Qty for payment	Rmtr	**500.00**	**401.25**	**200625.00**	
67	**Heavy Duty Collar 50 mm dia**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		88.00			
	Present Qty		88.00			
	Previous Bill Qty		0.00			
	Total		**88.00**			
	BOQ qty		**88.00**			
	Qty for payment	No	**88.00**	**139.10**	**12241.00**	

Consultants

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
68	**Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 6 Sqm mm KPWD Electrical SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		1000.00			
	Present Qty		1000.00			
	Previous Bill Qty		0.00			
	Total		**1000.00**			
	BOQ qty		**1020.00**			
	Qty for payment	Mtr	**1000.00**	**201.91**	**201910.00**	
69	**Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year 2008-09**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	Nos	**2.00**	**3210.00**	**6420.00**	
70	**Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	Each	**2.00**	**323.14**	**646.00**	
71	**Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		60.00			
	Present Qty		60.00			
	Previous Bill Qty		0.00			

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
	Total		**60.00**			
	BOQ qty		**60.00**			
	Qty for payment	Mtr	**60.00**	**150.23**	**9014.00**	
72	**Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		60.00			
	Present Qty		60.00			
	Previous Bill Qty		0.00			
	Total		**60.00**			
	BOQ qty		**60.00**			
	Qty for payment	Mtr	**60.00**	**11.56**	**694.00**	
73	**Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		50.00			
	Present Qty		50.00			
	Previous Bill Qty		0.00			
	Total		**50.00**			
	BOQ qty		**50.00**			
	Qty for payment	Mtr	**50.00**	**90.95**	**4548.00**	
74	**Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15 - 40mm dia GI pipe**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		8.00			
	Present Qty		8.00			
	Previous Bill Qty		0.00			
	Total		**8.00**			
	BOQ qty		**8.00**			
	Qty for payment	Mtr	**8.00**	**369.15**	**2953.00**	
75	**Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15 - 16Sqmm**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**299.60**	**599.00**	

Consultants

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
76	**Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, (P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**2917.89**	**5836.00**	
77	**Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15 - 32 Amps**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		12.00			
	Present Qty		12.00			
	Previous Bill Qty		0.00			
	Total		**12.00**			
	BOQ qty		**12.00**			
	Qty for payment	No	**12.00**	**192.60**	**2311.00**	
78	**KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 Page No. 93 Item No. 13.55 / PWD SR 2016-17**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**1728.78**	**3458.00**	
79	**Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 95 / I. No. 13.81.3 PWD SR 2016-7**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**248.45**	**497.00**	

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
80	**Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		8.00			
	Present Qty		8.00			
	Previous Bill Qty		0.00			
	Total		**8.00**			
	BOQ qty		**8.00**			
	Qty for payment	No	**8.00**	**85.60**	**685.00**	
81	**Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**374.50**	**749.00**	
82	**Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**1655.29**	**3311.00**	
83	**Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15 - 16SWG**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		43800.00			
	Present Qty		43800.00			
	Previous Bill Qty		0.00			
	Total		**43800.00**			
	BOQ qty		**43800.00**			
	Qty for payment 5% Cm	No	**43800.00**	**0.35**	**15330.00**	

Consultants

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
84	**Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum-control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter SERDED Rate**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		2.00			
	Present Qty		2.00			
	Previous Bill Qty		0.00			
	Total		**2.00**			
	BOQ qty		**2.00**			
	Qty for payment	No	**2.00**	**11770.00**	**23540.00**	
85	**Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		54.00			
	Present Qty		54.00			
	Previous Bill Qty		0.00			
	Total		**54.00**			
	BOQ qty		**54.00**			
	Qty for payment	Cum	**54.00**	**201.16**	**10863.00**	
86	**Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13. - 75 mm dia 6 KSC PVC pipe**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		120.00			
	Present Qty		120.00			
	Previous Bill Qty		0.00			
	Total		**120.00**			
	BOQ qty		**120.00**			
	Qty for payment	Rmtr	**120.00**	**167.99**	**20159.00**	
87	**Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13**					

No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.	Remarks
	Construction of Two RO plant in ward no. 07 Byatarayanapura		54.00			
	Present Qty		54.00			
	Previous Bill Qty		0.00			
	Total		**54.00**			
	BOQ qty		**54.00**			
	Qty for payment	Cum	**54.00**	**65.27**	**3525.00**	
88	**KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 92 / I.13.37 PWD SR - 2016-17**					
	Construction of Two RO plant in ward no. 07 Byatarayanapura		4.00			
	Present Qty		4.00			
	Previous Bill Qty		0.00			
	Total		**4.00**			
	BOQ qty		**4.00**			
	Qty for payment	Each	**4.00**	**2371.29**	**9485.00**	
				Grand Total	**15219710.00**	

Consultants

Assistant Engineer

Assistant Executive Engineer

Executive Engineer